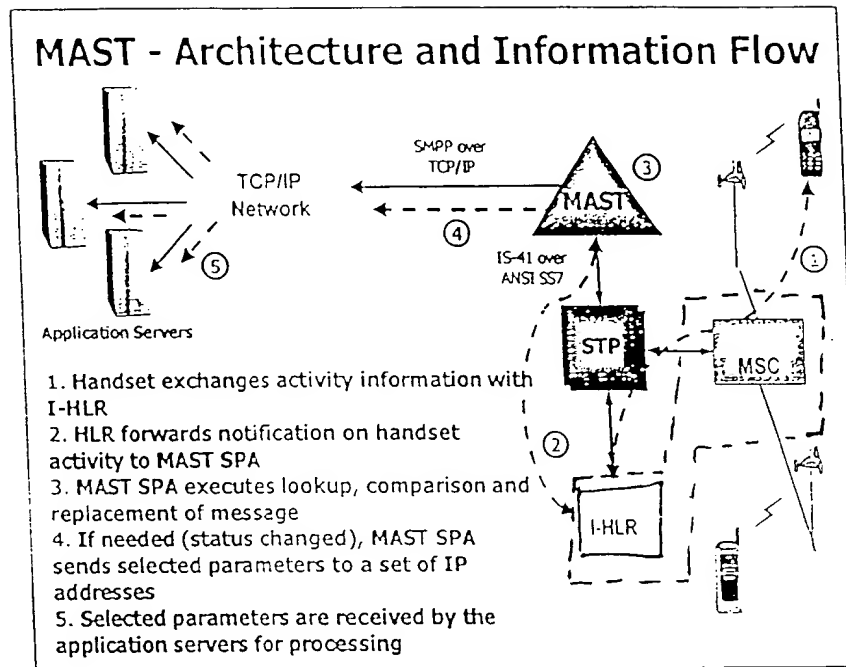


RECEIVED

AUG-3 2000

TECH CENTER 2700



MAST Architecture and Information Flow

FIG. 1

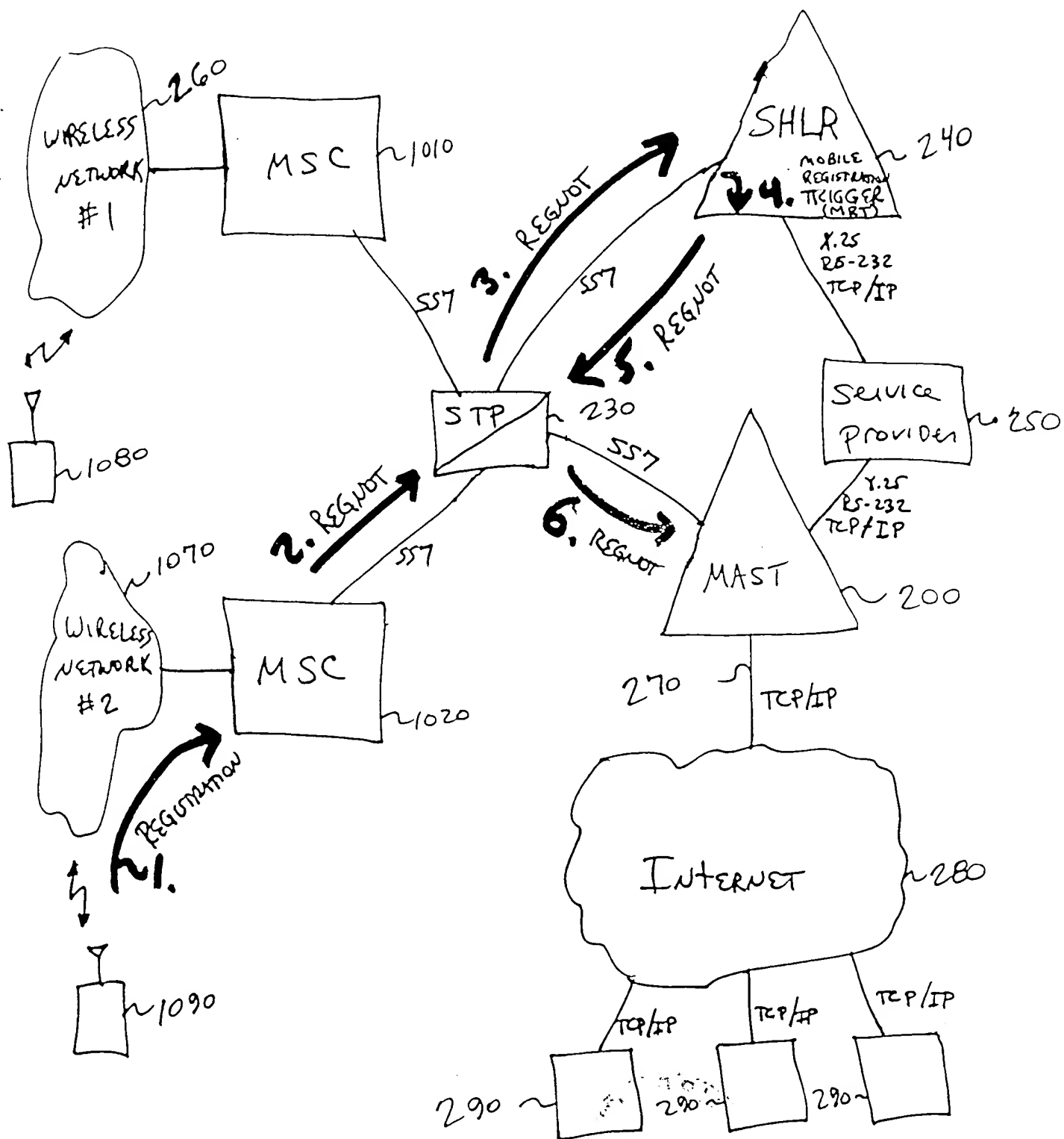


FIG. 2

APPLICATION SERVICES

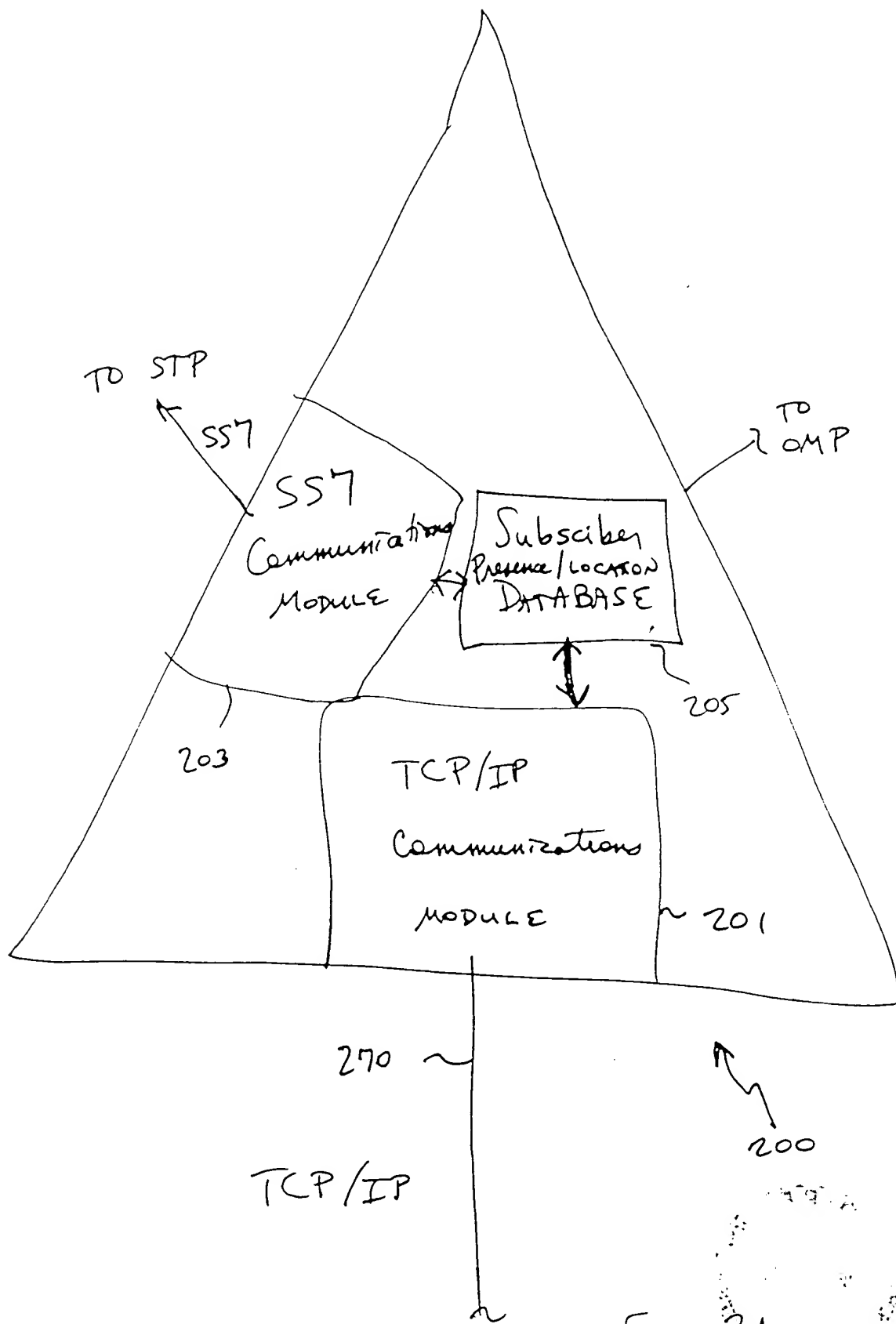


FIG. 2A

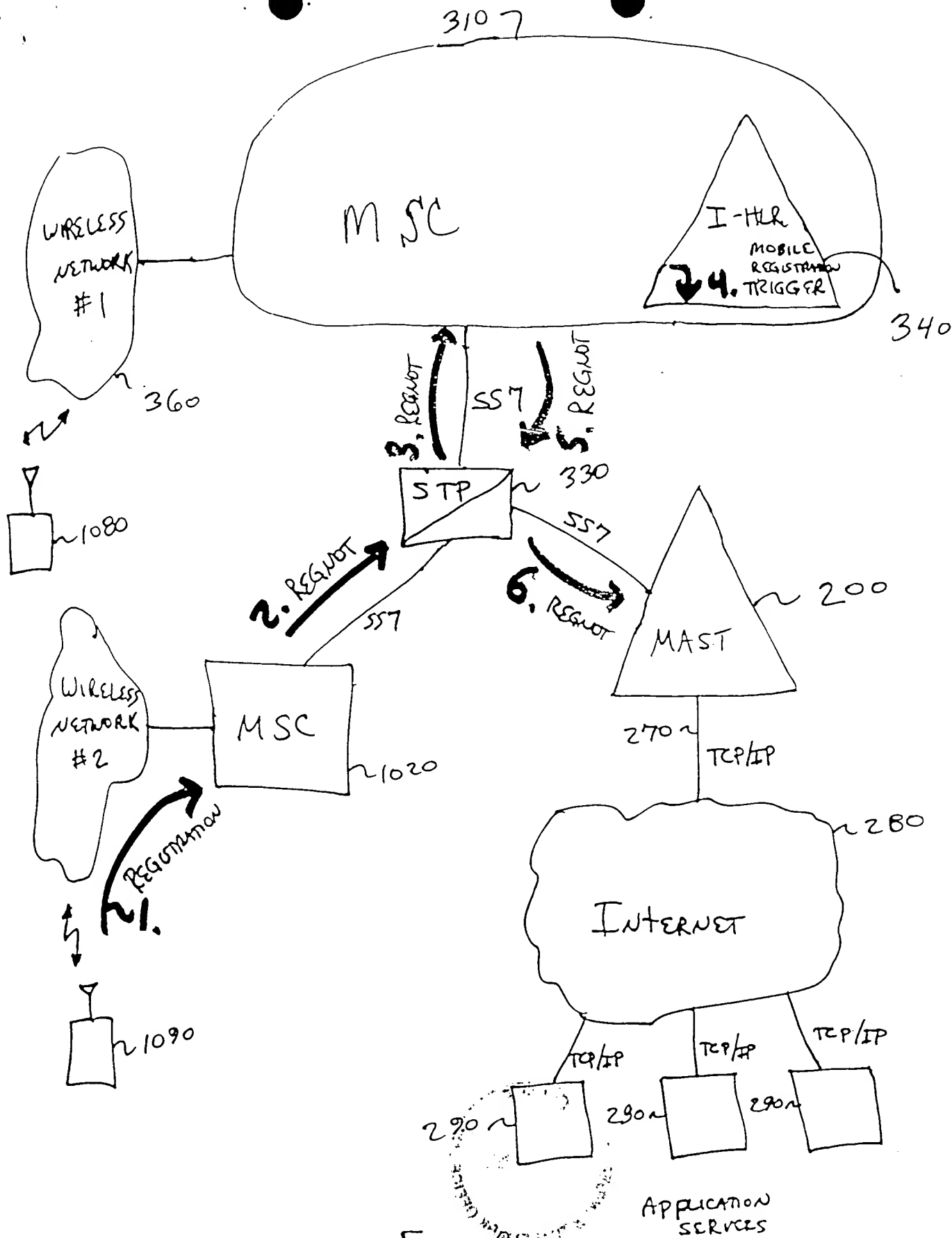


FIG. 3

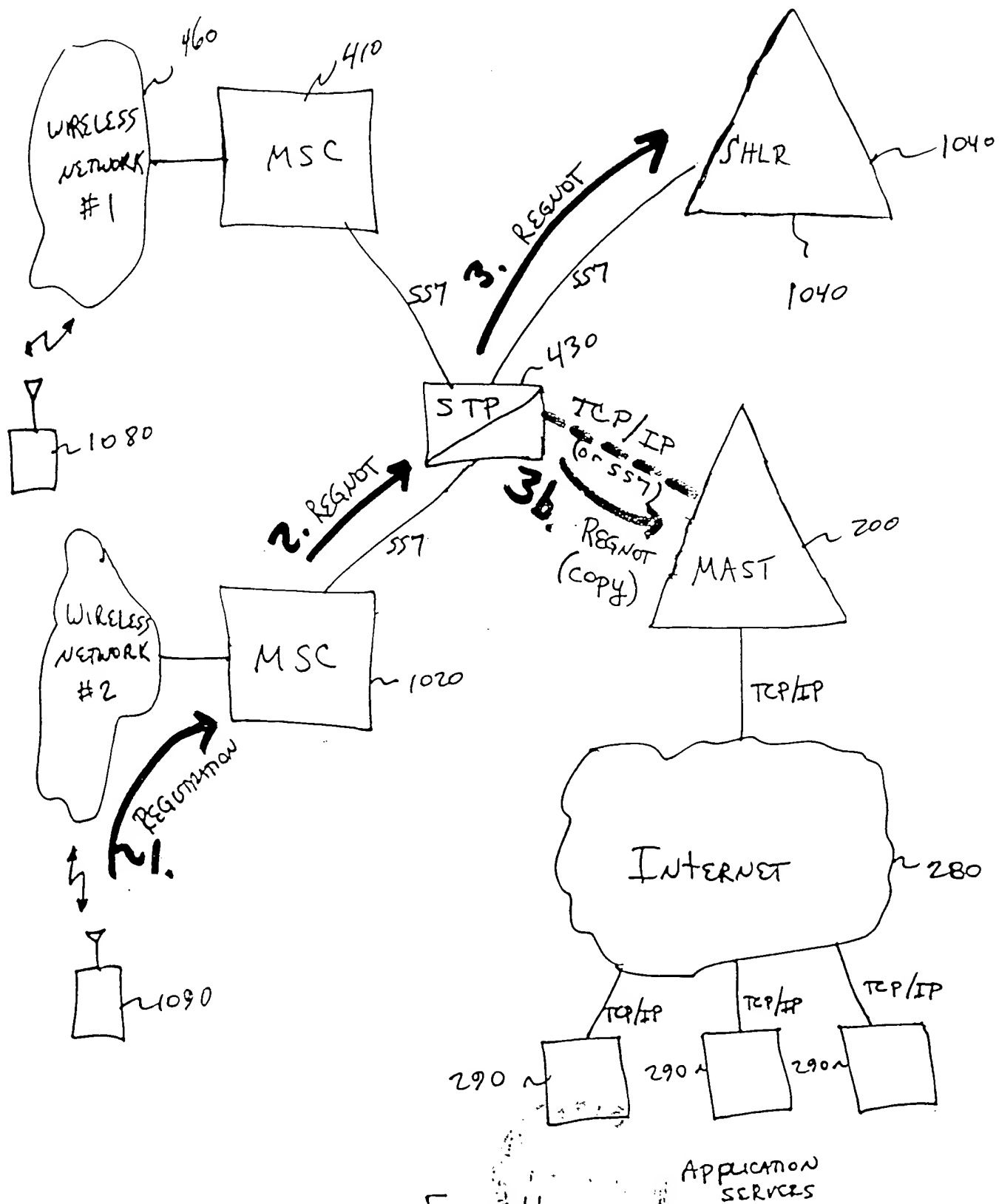


FIG. 4

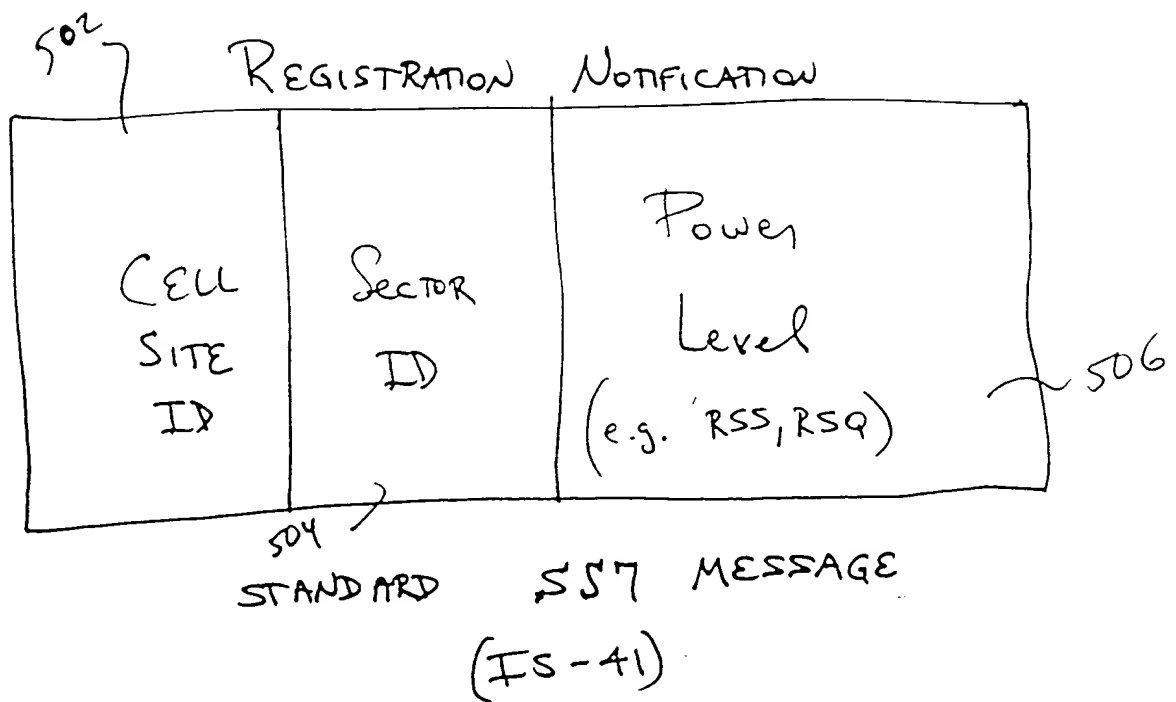


FIG. 5A

RegistrationNotification INVOKE Parameters	
Field	Value
Identifier	SET [NATIONAL 18]
Length	variable octets
Contents	
ElectronicSerialNumber	
MobileIdentificationNumber	
MSCID (Serving MSC)	
QualificationInformationCode	
SystemMyTypeCode (Serving MSC or VLR)	
AvailabilityType	
BorderCellAccess	
ControlChannelData	
ExtendedMSCID (VLR)	
LocationAreaID	
PC_SSN (Serving MSC or VLR)	
ReceivedSignalQuality	
ReportType	
SenderIdentificationNumber	
SMS_Address	
SMS_MessageWaitingIndicator	
SystemAccessData	
SystemAccessType	
SystemCapabilities	
TerminalType	
TransactionCapability	

RegistrationNotification INVOKE Parameters

PRIOR ART
FIG. 5B

Mobile Subscriber INACTIVE

SHUT DOWN
ALERT

STANDARD SS7 MESSAGE
(IS-41)

FIG. 6



IP ADDRESS	MOBILE ID	PRESENCE TIME/ DATE	LOCATION
---------------	--------------	---------------------------	----------

IP MESSAGE TO APPLICATION SERVER
(e.g., to Chat Server)

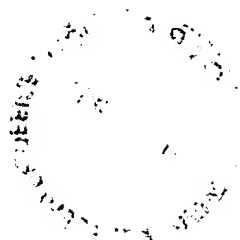
FIG. 7A



IP ADDRESS	MOBILE ID	LOG	PRESENCE TIME/DATE	LOCATION
		#1		
		#2		
		#3		
		#4		
		#5		
		#6		

IP MESSAGE TO
APPLICATION SERVER

FIG. 7B



SAMPLE OF TABLE

MSID	ACTIVE Y/N	LAST DATE/TIME	PARAMETER 1	PARAMETER 2	PARAMETER 3
COMPARE FIELD	Y	N	Y	N	Y
SEND FIELD	Y	Y	Y	Y	Y
9083067462	Y	120314520000	XX	YY	ZZ

FIG. 8



SAMPLE DECISION TREE

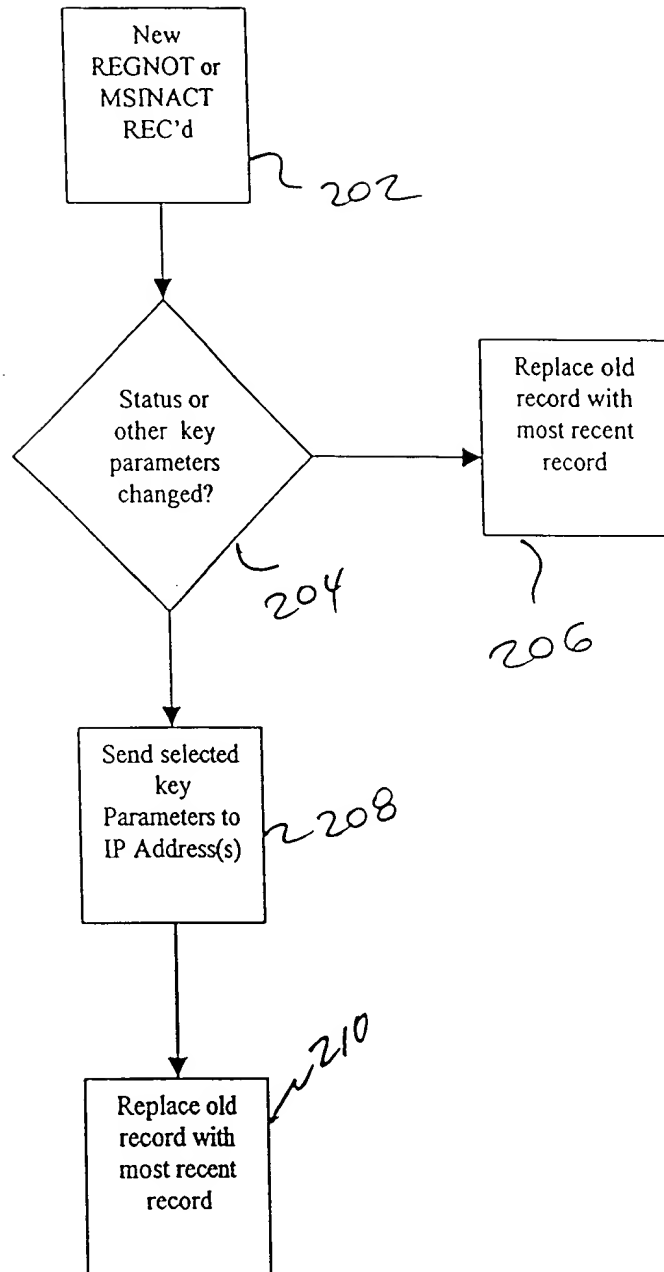


Fig. 9

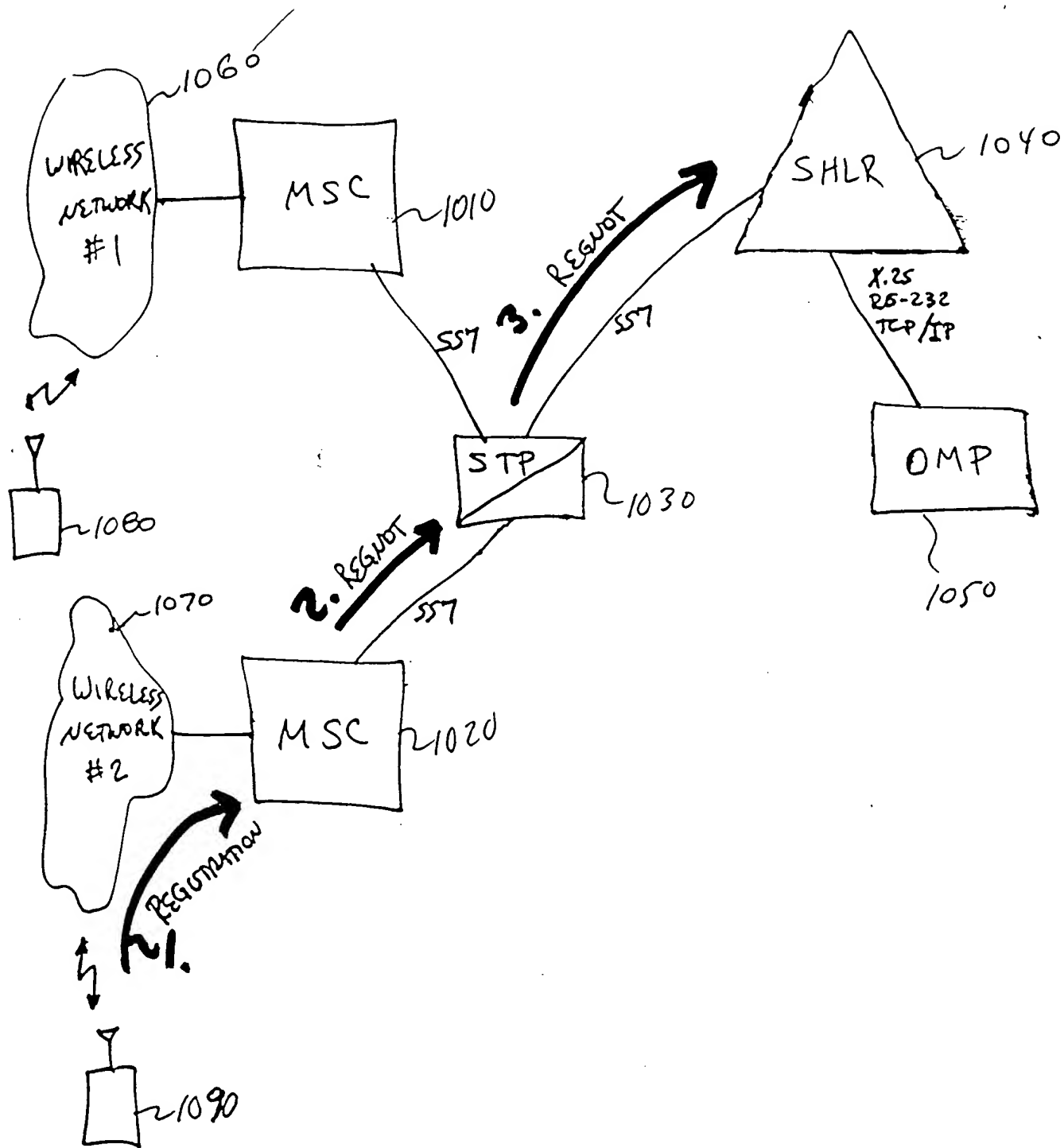


FIG. 10

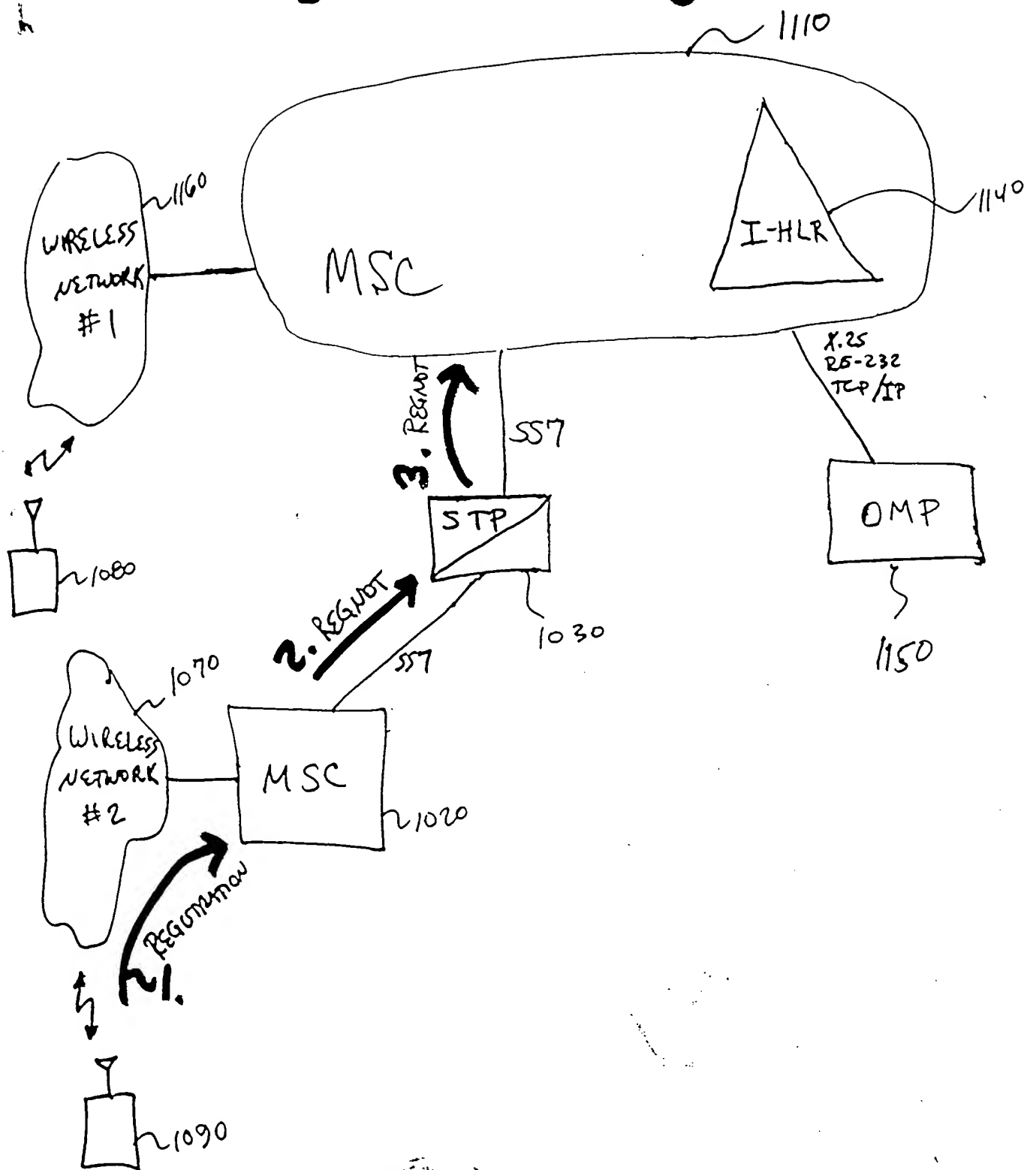


FIG. 11